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OM protein - protein search, using sw model

Run on: December 26, 2001, 10:34:59 ; Search time 98.13 Seconds
(without alignments)
1324.197 Million cell updates/sec

Title: US-09-497-967-7
Perfect score: 2540
Sequence: 1 MKNILVILISLFINQIKS.....QCDFANFLSILLISYILL 468

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 3148936 seqs, 277657034 residues

Total number of hits satisfying chosen parameters: 3148936

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Pending_Patents_AA_Main:*

1: /cgn2_6/ptodata/2/paa/PCTUS_COMB.pep.*
2: /cgn2_6/ptodata/2/paa/US06_COMB.pep.*
3: /cgn2_6/ptodata/2/paa/US07_COMB.pep.*
4: /cgn2_6/ptodata/2/paa/US080_COMB.pep.*
5: /cgn2_6/ptodata/2/paa/US081_COMB.pep.*
6: /cgn2_6/ptodata/2/paa/US082_COMB.pep.*
7: /cgn2_6/ptodata/2/paa/US083_COMB.pep.*
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18: /cgn2_6/ptodata/2/paa/US094_COMB.pep.*
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23: /cgn2_6/ptodata/2/paa/US099_COMB.pep.*
24: /cgn2_6/ptodata/2/paa/US60_COMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2540	100.0	468	18	US-09-498-612-6
2	921	36.3	442	18	US-09-498-612-5
3	843.5	33.2	414	3	US-07-763-352A-15
4	749	29.5	375	3	US-07-763-352A-3
5	251	9.9	3131	1	PCT-US01-06960-2
6	251	9.9	3131	19	US-09-515-363-2
7	251	9.9	3131	19	US-09-515-363B-2
8	245.5	9.7	3880	4	US-08-028-021-1
9	242.5	9.5	544	21	US-09-791-932-40
					Sequence 6, Appli
					Sequence 5, Appli
					Sequence 15, Appli
					Sequence 3, Appli
					Sequence 2, Appli
					Sequence 2, Appli
					Sequence 1, Appli
					Sequence 40, Appli

10	238.5	9.4	2826	1	PCT-US97-17746-50
11	238.5	9.4	2826	16	US-09-254-776-50
12	237.5	9.4	914	1	PCT-US00-08561-47
13	233	9.2	1917	18	US-09-436-063-5
14	233	9.2	1917	18	US-09-436-063C-5
15	233	9.2	1917	20	US-09-627-650-5
16	233	9.2	1917	20	US-09-627-650A-5
17	233	9.2	1917	20	US-09-627-650B-5
18	230.5	9.1	480	22	US-09-823-936-16
19	229.5	9.0	1277	1	PCT-US99-19726-33
20	229.5	9.0	1277	19	US-09-512-255-33
21	228.5	9.0	426	18	US-09-413-198-500
22	228	9.0	474	6	US-08-260-670-15
23	224	8.8	575	21	US-09-791-932-46
24	222	8.7	765	17	US-09-308-823A-484
25	221	8.7	105	15	US-09-196-161D-1
26	221	8.7	105	15	US-09-196-161D-10
27	220	8.7	505	6	US-08-260-670-16
28	219	8.6	3334	18	US-09-478-081-757
29	217.5	8.6	2443	18	US-09-478-081-1011
30	217	8.5	2508	18	US-09-436-063-7
31	217	8.5	2508	18	US-09-436-063C-7
32	217	8.5	2508	20	US-09-627-650-7
33	217	8.5	2508	20	US-09-627-650A-7
34	217	8.5	2508	20	US-09-627-650B-7
35	217	8.5	2544	18	US-09-436-063-3
36	217	8.5	2544	18	US-09-436-063C-3
37	217	8.5	2544	20	US-09-627-650-3
38	217	8.5	2544	20	US-09-627-650A-3
39	217	8.5	2544	20	US-09-627-650B-3
40	217	8.5	2601	18	US-09-436-063-9
41	217	8.5	2601	18	US-09-436-063C-9
42	217	8.5	2601	20	US-09-627-650-9
43	217	8.5	2601	20	US-09-627-650A-9
44	217	8.5	2601	20	US-09-627-650B-9
45	217	8.5	3518	19	US-09-522-097B-2

ALIGNMENTS

RESULT 1

US-09-498-612-6
; Sequence 6, Application US/09498612
; GENERAL INFORMATION:
; APPLICANT: GAERTIG, Jacak
; APPLICANT: DICKERSON Jr., Harry W.
; APPLICANT: CLARK, Theodore G.
; APPLICANT: THE UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC
; TITLE OF INVENTION: RECOMBINANT EXPRESSION OF HETEROLOGOUS NUCLEIC ACIDS IN
; TITLE OF INVENTION: PROTOZOA
; FILE REFERENCE: 235.00100101
; CURRENT APPLICATION NUMBER: US/09/498,612
; CURRENT FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/118,634
; PRIOR FILING DATE: 1999-02-04
; PRIOR APPLICATION NUMBER: 60/122,372
; PRIOR FILING DATE: 1999-03-02
; PRIOR APPLICATION NUMBER: 60/124,905
; PRIOR FILING DATE: 1999-03-17
; PRIOR APPLICATION NUMBER: 60/131,121
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: PCT/US00/02966
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 468
; TYPE: PRT
; ORGANISM: Ichthyophthirius multifiliis

US-09-498-612-6

Query Match 100.0%; Score 2540; DB 18; Length 468;
Best Local Similarity 100.0%; Pred. No. 3.1e-213;
Matches 468; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKNILVILISIFINQISANCPVGTETNTAGVDDLTGPANCYCNKFNFNNAAFV 60
DB 1 MKNILVILISIFINQISANCPVGTETNTAGVDDLTGPANCYCNKFNFNNAAFV 60
QY 61 PGASTCTPCQKDKAGAPNPATANLVTCNVKCPAGTAIAGGATDYAAIITECVNCR 120
DB 61 PGASTCTPCQKDKAGAPNPATANLVTCNVKCPAGTAIAGGATDYAAIITECVNCR 120
QY 121 NFYENAPNENAGASTCTACPNVRVGGALTAGNAATIVACNVACPTGTALDDGVT 180
DB 121 NFYENAPNENAGASTCTACPNVRVGGALTAGNAATIVACNVACPTGTALDDGVT 180
QY 181 RSTFECVKRLNFYNGNTPFNGKSCQPCPAIKPANVAQATLGNDAITTAQCENVA 240
DB 181 RSTFECVKRLNFYNGNTPFNGKSCQPCPAIKPANVAQATLGNDAITTAQCENVA 240
QY 241 CPDGTISAAGVNNWVAQNTCTNCAFNFNNAAPNPNPNSCLPCPANKDYGAETAGG 300
DB 241 CPDGTISAAGVNNWVAQNTCTNCAFNFNNAAPNPNPNSCLPCPANKDYGAETAGG 300
QY 301 AATLAKOCNIACTPDGTATIAAGATNYVILQTECLNCAANFYDGNFQAGSSRCACAPANK 360
DB 301 AATLAKOCNIACTPDGTATIAAGATNYVILQTECLNCAANFYDGNFQAGSSRCACAPANK 360
QY 361 VOGAVATAGGTATLIAQALECPAGVILDTGTTSTYKQAASECVKCAANFYTTKQTDWVA 420
DB 361 VOGAVATAGGTATLIAQALECPAGVILDTGTTSTYKQAASECVKCAANFYTTKQTDWVA 420
QY 421 GIDTCTSCNKKLTSGAEPANLPESAKNIQDFANFLSISLLLSIYLL 468
DB 421 GIDTCTSCNKKLTSGAEPANLPESAKNIQDFANFLSISLLLSIYLL 468

RESULT 2
US-09-498-612-5
; Sequence 5, Application US/09498612
; GENERAL INFORMATION:
; APPLICANT: GAERTIG, Jacek
; APPLICANT: DICKERSON JR., Harry W.
; APPLICANT: CLARK, Theodore G.
; APPLICANT: THE UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC
; TITLE OF INVENTION: RECOMBINANT EXPRESSION OF HETEROLOGOUS NUCLEIC ACIDS IN
; FILE REFERENCE: 235.00100101
; CURRENT APPLICATION NUMBER: US/09/498,612
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/118,634
; PRIOR FILING DATE: 1999-02-04
; PRIOR APPLICATION NUMBER: 60/122,372
; PRIOR FILING DATE: 1999-03-02
; PRIOR APPLICATION NUMBER: 60/124,905
; PRIOR FILING DATE: 1999-03-17
; PRIOR APPLICATION NUMBER: 60/131,121
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: PCT/US00/02966
; PRIOR FILING DATE: 2000-02-04
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Ichthyophthirius multifiliis
US-09-498-612-5

Query Match 36.3%; Score 921; DB 18; Length 442;
Best Local Similarity 41.8%; Pred. No. 1.3e-71;
Matches 214; Conservative 45; Mismatches 139; Indels 114; Gaps 19;

QY 1 MKNILVILISIFINQISANCPVGTETNTAGVDDLTGPANCYCNKFNFNNA 56
DB 1 MKNILVILISIFINQISANCPVGTETNTAGVDDLTGPANCYCNKFNFNNA 56
QY 57 AAFVPGASTCTPCQKDKAGAPNPATANLVTCNVKCPAGTAIAGGATDYAAIITECV 116
DB 57 AA-----OGEANGNQPPAAN----- 71
QY 117 NCRINFYENAPNENAGASTCTACPNVRVGGALTAGNAATIVACNVACPTGTALDDGVT 176
DB 72 -----NAARGICVPCQINRVGSVNTAGDLATLATCSTQCPTGTALDDGVT 117
QY 177 TDYVRSFTECVKRLNFYNGNTPFNGKSCQPCPAIKPANVAQATLGNDAITTAQCENVA 221
DB 118 DVFDRAAOCVKCPNFYNGSGPQGEAPVQVFAAGAAAGVAAVTSQCVPCQINKN--N 175
QY 222 VAQATLGNDAITTAQCNVACPDGTISRAAGVNNWVAQNTCTNCAFNFNNA 272
DB 176 DSPATAGAANLATQCSNQCTGTIVLDGVT--LVFNTSATLVCVKRPNFYNGSGPQGE 233
QY 273 APN-----NSTCLPCPANKDYGAETAGGATLAKOCNIACPDGTATIAQCA 320
DB 234 APGVQVFAAGAAAGVAAVTSQCVPCQINKN--DSPATAGAANLATQCSNQCTGTATQD 292
QY 321 GAT--NYVILQTECLNCAANFYDGNFQAGSSRCACAPANKVQAVATAGGTATLIAQCA 379
DB 293 GVTLVFSNSTQCSQCIANYFPNG--NFEAGKSQCLKCPVSKTTPAHA--PGNTATQATQCL 350
QY 380 LECAPAGTVLDTGTTSTYKQAASECVKCAANFYTTKQTDWAGIDTCTSCNKKLTSGAEPAN 439
DB 351 TTCAPAGTVLDTGTTSTYKQAASECVKCAANFYTTKQTDWAGIDTCTSCNKKLTSGAEPAN 410
QY 440 LPESAKNIQCT---DFANFLSISLLLSIYLL 468
DB 411 VYAEATQKVCASCTTFAKFLSISLLLSIYLL 442

RESULT 3
US-07-763-352A-15
; Sequence 15, Application US/07763352A
; GENERAL INFORMATION:
; APPLICANT: Clark, Theodore G.
; APPLICANT: Dickerson, Harry W.
; TITLE OF INVENTION: ICH IMMOBILIZATION ANTIGEN AND FISH
; TITLE OF INVENTION: VACCINE
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Greenlee and Winner
; STREET: 5370 Manhattan Circle, Ste. 201
; CITY: Boulder
; STATE: Colorado
; COUNTRY: USA
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/763,352A
; FILING DATE: 19910920
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferber, Donna M.
; REGISTRATION NUMBER: 33,878
; REFERENCE/DOCKET NUMBER: 15-91
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 303/499-8080
; TELEFAX: 303/499-8089
; TELEX: 823189
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 414 amino acids

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; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-763-352A-15

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Query Match	33.2%	Score 843.5;	DB 3;	Length 414;
Best Local Similarity	40.9%	Pred. No. 7.3e-65;		
Matches 196;	Conservative 41;	Mismatches 131;	Indels 111;	Gaps 18;

Qy	1	MKNNVILIIISLFINOIKSANGCVGTETNTAGQVD----	DIGTPANCVCNCKNFYYNNA	56
		: : : : : :		
Db	1	MYNITLLIIISLFINELNRAVPCPDGTQ-QAGLTVGAADLGT----	CVNCRPNFYNGG	56
		: : : : : :		
Qy	57	AAAFVPGASTCTPCPKKDGAGQNPBPATANLVTCNVKCPAGTAGAGTAAIITECV	116	
		: : : : : :		
Db	57	AA-----QGEANGQPFAN-----	71	
Qy	117	NCRINFYENAPFNAGASTCTCAPVNRVGGALTAGNAATIVAQCNVACPTGTALDDGVT	176	
		: : : : : :		
Db	72	-----NAARGICVPCQINRVGVTNAGDLATLATQCSQCTGTALDDGVT	117	
		: : : : : :		
Qy	177	TDVRSFTECVKRLNFYNGNN--GNTP-----ENPG-----	KSQCTPCPAIKPAN	221
		: : : : : :		
Db	118	DVDFDSSAQCVKCPNFYNGSGPQGEAPGVQVFAAGAAAAGVAAVTSQCVPCQLNK--N	175	
		: : : : : :		
Qy	222	VAQATLGNDAITTAQCNVACPDGTISAAGVNNWVAQNT-----CTNCAPNFYNN-----	N	272
		: : : : : :		
Db	176	DSPATAGAAQANLATQCSNOCPTGTVLDDGVT--LVFNISATLCVKCRPFYNGSGPQGE	233	
		: : : : : :		
Qy	273	APN-----NPG-----NSTCLCPANKDXGABATAGGAATLAKOCTACPDGTATAS	320	
		: : : : : :		
Db	234	APGVQVFAAGAAAAGVAAVTSQCVPCQLNKN--DSPATAGAAQANLATQCSQCTGTATID	292	
		: : : : : :		
Qy	321	GAT--NYVILQTECLNCAANFYFDGNNQFAGSGSRCKACPAKPVQGAATAGGTATLIAQCA	379	
		: : : : : :		
Db	293	GVTLVFNSNSTQCSQCIANYFENG--NLEAGKSQCLKCPVSKTTPAHA--PGNTATQATQCL	350	
		: : : : : :		
Qy	380	LECPCAGTVLDDGTSITYKQAASECVCKANFYTTKQTDVAGIDTCTSCNKKLTSGAE	438	
		: : : : : :		
Db	351	TTCPAGVILDDGTSITNFVASATECTKSAGFFASKTGTGTAGDTCTCTCKLTSGATA	409	
		: : : : : :		

RESULT 4

US-07-763-352A-3
: Sequence 3, Application US/07763352A
: GENERAL INFORMATION:
: APPLICANT: Clark, Theodore G.
: APPLICANT: Dickerson, Harry W.
: TITLE OF INVENTION: ICH IMMOBILIZATION ANTIGEN AND FISH
: TITLE OF INVENTION: VACCINE
: NUMBER OF SEQUENCES: 15
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Greenlee and Winner
: STREET: 5370 Manhattan Circle, Ste. 201
: CITY: Boulder
: STATE: Colorado
: COUNTRY: USA
: ZIP: 80303
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/07/763,352A
: FILING DATE: 19910920
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Ferber, Donna M.
: REGISTRATION NUMBER: 33,878
: REFERENCE/DOCKET NUMBER: 15-91
: TELECOMMUNICATION INFORMATION:

```

: TELEPHONE: 303/499-8080
:
: TELEFAX: 303/499-8089
:
: TELEX: 823189
:
: INFORMATION FOR SEQ ID NO: 3:
:
: SEQUENCE CHARACTERISTICS:
:
: LENGTH: 375 amino acids
:
: TYPE: AMINO ACID
:
: TOPOLOGY: linear
:
: MOLECULE TYPE: protein
:
: US-07-763-352A-3

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Query Match 29.5%; Score 749; DB 3; Length 375;
Best Local Similarity 38.4%; Pred. No. 1.2e-56;
Matches 172; Conservative 39; Mismatches 133; Indels 104; Gaps 15;

[illegible]

RESULT 5

```

PCT-US01-06960-2
; Sequence 2, Application PC/TUS0106960
; GENERAL INFORMATION:
; APPLICANT: The Trustees of Columbia University in the City of New York,
; APPLICANT: et al.
; TITLE OF INVENTION: Melanoma Differential Associated Gene-5 (mda-5), Promoter
; TITLE OF INVENTION: and Uses Thereof
; FILE REFERENCE: 0575/60849-A-PCT
; CURRENT APPLICATION NUMBER: PCT/US01/06960
; CURRENT FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 2
; LENGTH: 3131
; TYPE: PRT
; ORGANISM: Human
PCT-US01-06960-2

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Query Match 9.9%; Score 251; DB 1; Length 3131;
Best Local Similarity 24.7%; Pred. No. 6.6e-12;
Matches 119; Conservative 6; Mismatches 177; Indels 180; Gaps 19;

Qy	23	CPVGTETNTAGQVDDLTGPNCVN-	-----	46
Db	381	CAAGCTTCTAGACAGCTCTTGATAGTGCATGGAGGAGAACTGTTGCAAAATGA	440	
Qy	47	---CQKNFYNNAAAFVPGAST---CTCPQPKKDGAGQPNPPTANLVTCNKVKPGAT	99	
Db	441	AGACA-----GAAACCGGATGCTGTCG-----AGAAACAATGGAAATGAATCAGGT	489	
Qy	100	AIAGGATDYAAIIECVNCRINFENAPNFAGASCTCTACPNRVNCGGALTAGNAATIVA	159	
Db	490	GTAAGA-----GAGCTACTAAAA--AGGATTGTGCAGAAA	522	
Qy	160	QCNVACPTGTALDGVTTDYVRSTETCVKCRLFNYNGNNGNTFFNPGKSOCTPCPAIKP	219	

Query Match	9.98;	Score	251;	DB	19;	Length	3131;
Best Local Similarity	24.7%;	Pred. No.	6.6e-12;				
Matches	119;	Conservative	6;	Mismatches	177;	Indels	180;
							Gaps
19							
QY	23	CPVGTETWTAQVDDLGPANCVN	-----	46			
DB	381	CAAGCTTCTAGTATTAGACAGCTCTGGATAAGTCGATCGAGGAGCACTGTGACAATTGA	440				
QY	47	---CQKNFYNNAAAFVPGAST	---CTPCQKKDGAQNPPTATANLVTCQNVKCPAGT	99			
DB	441	AGACA-----GAAACCGGATGCTGCTGC	---AGAAACAATGAAATGAATCAGGT	489			
QY	100	ATAGGATDYAAIITECVNCRINFYNAPNFNAGASTCTACPVNRVGGALTAGNAATIVA	159				
DB	490	GTAAGA-----GAGCTACTAAAA--AGGATTTGTCAGAAA	522				
QY	160	QCNVACPCTGALDDGVTTDYVRSFTECVKRLNYYNGNNGTFFNPGKSCQTCPCPAIKP	219				
DB	523	GAAACTGGTT-----CTCTGCATTTCTGAATGTT	556				
QY	220	ANVAQATLGNDATITTAQCNVACPQDGTISAAGVNNVAQNTCT	271				
DB	557	-GTCAAACAGGAAACAATGAAGCTTCTCCAGAGTTAACAGGCTCTGATGCTCA	609				
QY	272	NAPNFNPGNSTCLPCPANKDYGAEEATAG-GAATLAKOCNIACPDGTATIASGATNVILQT	330				
DB	610	-----GAAAGCAATGCAGAGATTGAGAATTATC--ACAAGTTGATGGT	651				
QY	331	ECLNCAANYFDGNNFQAGSSRCKCAPKNV-----QGAVATA	368				

Db 652 -CCTCAAG---TGGAAGACAACTTCTTTCAACACAGTTCAGCAAACTCGGAGAAGGA 707
QY 369 GGTATLIAOALCPAGTTLTGTTSTYKQAASECVKC--ANFVTTTKOTDHWAGIDTCT 426
Db 708 GGTCCTGGGCA-----TGAGAA--TAACTCATCAGAAATCATCTTTTGCAGATTCT 756
QY 427 SC 428
Db 757 TC 758
RESULT 8
US-08-028-021-1
; Sequence 1, Application US/08028021
; GENERAL INFORMATION:
; APPLICANT: THOMPSON, JOHN F.
; TITLE OF INVENTION: PROMOTER AND GENE FOR HUMAN
; TITLE OF INVENTION: CHOLESTEROL
; NUMBER OF SEQUENCES: 7-A HYDROXYLASE
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PETER C. RICHARDSON
; STREET: 235 EAST 42ND STREET, 42ND STREET
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: U.S.A.
; ZIP: 10017-5755
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/028,021
; FILING DATE: 08-MAR-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: STRASSBURGER, PHILIP C.
; REGISTRATION NUMBER: 34,258
; REFERENCE/DOCKET NUMBER: PC8143
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 573-5731
; TELEFAX: (212) 573-1939
; N/A
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3880 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-028-021-1
Query Match 9.78; Score 245.5; DB 4; Length 3880;
Best Local Similarity 25.8%; Pred. No. 2.6e-11;
Matches 115; Conservative 9; Mismatches 198; Indels 123; Gaps 21;
QY 21 ANCPVGTETNTAGOVDDLTGPANCVNCKNFYNNAAAFVPGASTC-----TPCP 70
Db 2849 ATCATATCTAAA-----GTTGTCCTC-----ATCCCCCATAGCTTTCT 2887
QY 71 QKKDAGQPNPAPATANLVTC-NVKCPAGTAIAGGATDYAAIITECVNCRINFYNNAPN 129
Db 2888 ATACCATGTTTTTATTTTTTTTTCATAACATGATTTTATTACTCCTCTTCTCCAT----TGCA 2943
QY 130 FNAGASTCTACPNRVGSGALTAGN-AATIVACNVACPGTALDDGVTTDYVRSFTCEVK 188
Db 2944 ATAGANTCTCCAT--TAGATAGAAATCTGCCTATCTTAT-----TAATG 2987
QY 189 CRLNFYNNGNNGNTPFNPGRSQCTPCPAIK--PANVAQATLGNDAITTAQCNVACPDGPI 246
Db 2988 C-----CTGCACTGGAACTACTTTTGAAGAGTTCTTGGCACGTA 3026

QY 247 SAAGVNNVQAQTECTNCAPNFYNNNPNFNGNSTCLPCPANKDYGAETAGGAATLAK 306
Db 3027 ATAAA-----TACT-CAA-CTAATAATTTTGTGTACACA-----GAAATAAAGTTGG 3072
QY 307 QCNIACPCDCTATASGATNVLIQTECLNCAANFYDGNHNFQAGSSRCCKACPAKVKQGA 366
Db 3073 AGAACACAGATGCCAAT-----TGTACTAG-----TGGTTACTTCTG-----AGTA 3114
QY 367 TAGGTATLIAOALCPAG-----TVLTGDTTSTYKQAASECVKCAANFYTTKOTD 417
Db 3115 AAGGAGT--AGCATGTAGTAAATTAATTAATAGATGTCTACTTTCACCAAGATAITGTT 3172
QY 418 VWAG--IDTCT--SCNKKLTSGAEA 438
Db 3173 TTAGTTAGTCTTAACTTACTTGAAA 3197
RESULT 9
US-09-791-932-40
; Sequence 40, Application US/09791932
; GENERAL INFORMATION:
; APPLICANT: Vogeli, Gabriel
; APPLICANT: Parodi, Luis A.
; APPLICANT: Hiebsch, Ronald R.
; APPLICANT: Lind, Peter
; APPLICANT: Kaytes, Paul S.
; APPLICANT: Ruff, Valerie
; APPLICANT: Huff, Rita M.
; APPLICANT: Wood, Linda S.
; TITLE OF INVENTION: Novel G Protein-Coupled Receptors Cross-Reference To Related
; FILE REFERENCE: 00325.USI
; CURRENT APPLICATION NUMBER: US/09/791,932
; CURRENT FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/184,305
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 60/184,304
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 60/184,303
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 60/184,397
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 60/184,247
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 60/188,880
; PRIOR FILING DATE: 2000-03-13
; PRIOR APPLICATION NUMBER: 60/217,369
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/217,370
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/218,492
; PRIOR FILING DATE: 2000-07-20
; PRIOR APPLICATION NUMBER: 60/186,810
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: 60/188,064
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: 60/186,457
; PRIOR FILING DATE: 2000-03-02
; PRIOR APPLICATION NUMBER: 60/213,861
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: 60/194,344
; PRIOR FILING DATE: 2000-04-03
; PRIOR APPLICATION NUMBER: 60/218,337
; PRIOR FILING DATE: 2000-07-14
; NUMBER OF SEQ ID NOS: 184
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 40
; LENGTH: 544
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-791-932-40

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Query Match          9.5%; Score 242.5; DB 21; Length 544;
Best Local Similarity 24.5%; Pred. No. 4e-12;
Matches 119; Conservative 11; Mismatches 183; Indels 173; Gaps 22;

QY 23 CPVGTETNTAG-----QVDDLGPANCVNCKNFYNNAAAFVPG-----62
DB 90 CYGGTAATTTGGAGCAAAATTTGTACTTTC-----ACAGTTGCTGTGATGSGCA 141
QY 63 -----ASTCTPCPKKDAQAQNPATANILVTCNKKPCAGTAIAGGATDYAAIITEC 115
DB 142 TTTTGTACTCTTC-----TGTCTCC--ACTTGTG-----CTTC 174
QY 116 VNCRIYNNENAPNENAGASTC-----TACPVNRVGGALTAGNA-----ATIV 158
DB 175 ATC-----TGCATCGACAGGTACATTTGTGTACTGATGATCCCTGGTCTATGC 221
QY 159 AOCNVA-----CPTGTALDDGVTTDYVRSFTECVKRLNFYNNNGNTFPNPKSOCT 212
DB 222 TACCAAGTTCCACCGTCTGTCTGCGGAATTTGCATCA-----GCCGTGCTCGGATTTCT 275
QY 213 PCPAIKPANVAQATLGNDAITTAQCNVACPDTISAAAGVNNVWVAQNTNCAPNFYNN 272
DB 276 GC-----CTCTCAGCTAC-----ACCGGTGCTGTGTTCTACA-----307
QY 273 APNPNSTCLPCPANKDYGAET--AGGAATLA-----KOCNIACPD-----GTAIASG 321
DB 308 ---CAGGTGCAATGATGATGGCTGGAGGAATTAAGTCTCTCACTCGGTAGGTG 364
QY 322 -----ATNYILOTECLNCAANFYEDGNFQAGSRCKACPAKVVQAVAT--AGGTA 372
DB 365 GCTGTCAAATTAATTAAGTCAAGGCTGGGTGTGTAT-----AGATTTTCTGTTA 414
QY 373 TLIAQCALECPAGTVLTDGTTSTYKQAASECVKCAANFYTTKQDWNVAGIDTCTCNKKL 432
DB 415 TTCTTACCTACCTACCCTGTTGATGATAATTCT-----TTACAGTAAGATTTTCT-TA 466
QY 433 TSGAEA 438
DB 467 TAGCTA 472

RESULT 10
PCT-US97-17746-50
; Sequence 50, Application PC/TUS9717746
; GENERAL INFORMATION:
; APPLICANT: Laten, Howard M.
; TITLE OF INVENTION: PLANT RETROVIRAL POLYNUCLEOTIDES AND
; NUMBER OF SEQUENCES: 58
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray and Borun
; STREET: 233 South Wacker Drive/6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US97/17746
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Clough, David W.
; REGISTRATION NUMBER: 36,107
; REFERENCE/DOCKET NUMBER: 27013/33214 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 474-6500
; TELEFAX: (312) 474-0448
; INFORMATION FOR SEQ ID NO: 50:
```

```
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2826 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
PCT-US97-17746-50

Query Match          9.4%; Score 238.5; DB 1; Length 2826;
Best Local Similarity 26.6%; Pred. No. 7.2e-11;
Matches 119; Conservative 7; Mismatches 229; Indels 93; Gaps 22;

QY 20 SANCPE-----VGTETINTAGQVDDLTGTANCY--NCQKNFYNNAAAFVPGASTCTPCPK 73
DB 273 AATCTGTGGTGAATGTGCAGATTGGAAAGCAAGTCAAGATGTCCAACCAAGAGCTTC--- 328
QY 74 DAGAQNPPATANILVTCNKKPCAGTAIAGGATDY--AAIITECVNCRINFYNNENAPNF 131
DB 329 -----AACATCAGAC---CACTCCAGGGTGTGGAACACTTCCACATGGACTTGAT 377
QY 132 AGASTCTA--CPVNRVG---GALTAGNAA-----TIVAQCNVACPTGTALDDGVTTD 178
DB 378 GGGCCTTACGAAGTTGAAAGCCTTGGAGAAAGAGTATGCCTATGTTCTGTGGAT-- 435
QY 179 YVRSFTECVKRLNFYNNNGNTFPNPKSOCTPCPAIKPANVAQATLGNDAITTAQCN 238
DB 436 --GATTTCTCC-----AGATTTACCTGGGTCAACTT--TATCAGAGAGAAATCAGACA 484
QY 239 VACPDG-----TISAAGVNNVNAQNT-----ECTNC--APNFYNNAPNPNSTCLPCP 287
DB 485 CTTTGAAGTATTCAGAGAGTTGAGTCTAAGACTTCAAGAGAGAAAAGACTGTGTCATCA 544
QY 288 ANKDYGABATAGGAATLAKQCNIACPDGTATAGATNVILQTECLNCAANFYEDGNFQ 347
DB 545 AGA--GAATCAGGAGTGA-----CCATGGCAGAGAGTTGAAAACAGCAAG---TTTACT 594
QY 348 AGSSRCKACPAKVVQAVATAGGTATLIAQCALECPAGTVLTDGTTSTYKQAASECVKCA 407
DB 595 GAATTCGTGCATCTCTGA---AGGCAT---CACTCATGA---GTTCT-----CTGCA 636
QY 408 ANFYTTKQDWNVAGIDTCTCNKKLTSG 435
DB 637 GCCATT-----ACACCACACAAAATGG 659

RESULT 11
US-09-254-776-50
; Sequence 50, Application US/09254776
; GENERAL INFORMATION:
; APPLICANT: Laten, Howard M.
; TITLE OF INVENTION: PLANT RETROVIRAL POLYNUCLEOTIDES AND
; NUMBER OF SEQUENCES: 58
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray and Borun
; STREET: 233 South Wacker Drive/6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/254,776
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Clough, David W.
; REGISTRATION NUMBER: 36,107
```

REFERENCE/DOCKET NUMBER: 27013/33214 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 474-6300
TELEFAX: (312) 474-0448
INFORMATION FOR SEQ ID NO: 50:
SEQUENCE CHARACTERISTICS:
LENGTH: 2826 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: protein
US-09-254-776-50

Query Match 9.4%; Score 238.5; DB 16; Length 2826;
Best Local Similarity 26.6%; Pred. No. 7.2e-11;
Matches 119; Conservative 7; Mismatches 229; Indels 93; Gaps 22;

QY 20 SANCPC---VGTETNTAGVDDLTGPANCV--NCQNFYNNAAAFVPGASTCTPCPQKK 73
DB 273 AATCTGTGTGAATGTCAGATTGGAAGCAAGTCAAGATGTCACACCAAGCTTC----- 328
QY 74 DAGAQPNNPATANLVTCNVKCPAGTATAGGATDY--AAITTECVNCRINFYNENAPNFN 131
DB 329 -----AACATCAGAC---CACTTCCAGGGTGTCTGGAAGTACTTTCACATGGACTTGAT 377
QY 132 AGASTCTA---CPNVNRYG---GALTAGNAA-----TIVACNVACPTGTALDDGVTTD 178
DB 378 GGGGCTATGCAAGTTGAAGCCTTGGAGAAAGGATATGCCATGTGTGTGGAT-- 435
QY 179 YVRSFTECVKCHLNYYNGNNGNTFENPGKSOCTPCPAIKPANVAQATLGNDAITTAQCN 238
DB 436 --GATTCTCC-----AGATTACCTGGGTCAACTT--TATCAGAGAGAAATCAGACA 484
QY 239 VACPQD-----TISAAGYNNVAQNT-----ECTNC-APNFYNNAPNFNPGNSTCLPCP 287
DB 485 CTTTGAAGTATCAAGAGTTGAGCTTAAGACTTCAAGAGAGAAAAAGAGACTGTGTCATCA 544
QY 288 ANKDYGAETAGGAATLAKQNIACPDGTATAGATNVILOTECLNCAANFYFDGNFQ 347
DB 545 AGA--GAATCAGAGCTGA-----CCATGGCAGAGAGTTTGAACACACAAG---TTTACT 594
QY 348 AGSSRCKACPAKPVQAVATAGGTATLIAQCALECPAGTVDGTTSTYKQAAASECVKCA 407
DB 595 GAATCTCGACATCTGA---AGGCAT---CACTCATGA-----GTTCT-----CTGCA 636
QY 408 ANFYTTKOTDHWAGTDTCTSCNKKLTSG 435
DB 637 GCATT-----ACACCACAAATAATGC 659

RESULT 12
PCT-US00-08561-47
; Sequence 47, Application PC/TUS0008561
; GENERAL INFORMATION:
; APPLICANT: HSU, Daniel, K.
; APPLICANT: LIU, Fu-Tong
; APPLICANT: DOWLING, Christopher, A.
; TITLE OF INVENTION: GALECTIN EXPRESSION IS INDUCED IN
; FILE REFERENCE: DANHSU.001VPC
; CURRENT APPLICATION NUMBER: PCT/US00/08561
; CURRENT FILING DATE: 2000-03-29
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 914
; TYPE: PRT
; ORGANISM: human
PCT-US00-08561-47

Query Match 9.4%; Score 237.5; DB 1; Length 914;

Best Local Similarity 25.7%; Pred. No. 2.1e-11;
Matches 123; Conservative 9; Mismatches 208; Indels 139; Gaps 19;
QY 23 CPVGTETNTAGVDDLTGPANCVNCKNFYNNAAAFVPGASTC-----TPCPOKKDAG 76
DB 500 CACGCTTCA-----TGAGAACAAAC-----AGGAGAGTCAATTTGTCGAATACAA 544
QY 77 AQPNNPATANLVTCNVKCPAGTATAGGATDYAAIITECVNCRINFYNENAPNFNAGAST 136
DB 545 AGCTGGATA-----ATAACTGGGGAAGGAAGAACAGACAGTC-----GGTT 585
QY 137 CTACPNVRYGGAL-TAGNA-----ATIVACNVACPTGTALDDGVTTDYYRSTFCVKRL 191
DB 586 TTCCCATTTGAAAGTGGGAAACCATTTCAAAATACAACTACTGGTTGAACCTGACCA----- 641
QY 192 NEFYNGNNGNTFENPGKSOCTPCPAIKPANVAQATLGNDAITTAOCNVACPDGTFISAGV 251
DB 642 -----CTTCAAGTTGCGATGAATGAT---GCTCCTGTGTGCGAT 679
QY 252 -----NNWVAQNTNTECNAPNFYNNAPNFNPGNSTCLPCPANKDYGAEAT--- 297
DB 680 ACAATCATCGGTTTAAAAAACT-CAA-----TGAATCAGCAAACTGGGAATTC 728
QY 298 ---AGGAATLAKQNIACPDG-----TATAGATNVILOTECLNCAANFYFDGNFQ 347
DB 729 TGTGACATAGACCTCACACAGTGTTCATATACCATGATATAATCTGAAA-----GGGC 783
QY 348 AGSSRCKACPAKPVQAVATAGGTATLIAQCALECPAG-----TVLTDGT----- 392
DB 784 AGATTAAAAA-----TSTYKQAAASECVKCA--ANFYTTKOTDHWAG-IDTCTSCNKKLTSGAE 438
QY 393 -----TSTYKQAAASECVKCA--ANFYTTKOTDHWAG-IDTCTSCNKKLTSGAE 438
DB 844 TGAGTGAATAATTTTACATTCATCAATCAATCCCTCTGTGTAAGTCACTACTTAATAATA 902

RESULT 13
US-09-436-063-5
; Sequence 5, Application US/09436063A
; GENERAL INFORMATION:
; APPLICANT: Bamber, Bruce A.
; APPLICANT: Jorgensen, Erik M.
; TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
; FILE REFERENCE: Methods Related thereto
; CURRENT APPLICATION NUMBER: US/09/436,063A
; CURRENT FILING DATE: 1999-11-08
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 1917
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-09-436-063-5

Query Match 9.2%; Score 233; DB 18; Length 1917;
Best Local Similarity 25.4%; Pred. No. 1.3e-10;
Matches 115; Conservative 10; Mismatches 238; Indels 90; Gaps 18;
QY 23 CPVGTETNTAGVDDLTGPANCVNCKNFYNNAAAFVPGA-----STCTPCPQ 71
DB 622 CTCACCTACGTCGGAGTACACCTGGATAGACTGTGGAACCCGACACGCTTCTCC 681
QY 72 KKDAGAPNPATANLVTCNVKCPAGTATAGGATDYAAIITECVNCRINFYNENAPNFN 131
DB 682 AAATGAAA-AGAAATCATTTCTCCACTT---GGCAACCAACACATAAC-----T 725
QY 132 AGASTCTACPNVRYGGALTAGNAATIVACQN-----VACPTGTALDDGVTTDYYRSTFC 186
DB 726 CGTTCCTCTGATCGAG--GGTATGGAACGGTTTATAGTAGTCAAGAGATTAACAGTCA 783
QY 187 VKRLNFYNGNNGNTFENPGKSOCTPCPAIKPANVAQATLGNDAITIT-AQC-----NVA 240

Wed Dec 26 12:01:34 2001

us-09-497-967-7.rapm

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Db 784 TGCAA-----CGTGTCCAATGGACCTGAAGCTGTTCCTCCAAATGGACTCTCAACACTGTAAA 838
QY 241 CPDGTISAAGVNNWVAQNTCTNCAPNFNNAPNPNPNCNSTCLPCPANKDYGAETAGG 300
Db 839 CTGGAATTTGAAAGCTACGGCTACA-----GTATCCTCGA-----CATTATG 880
QY 301 AATLAKQCNITACPDGTATASG---AFNYVILQTECLNCAANFYFDGNFQAGSSRCKACP 357
Db 881 TAGCTGTCCGACGAGAAGAGTCCGTG---TCCACCGAGTCTTATG---AGTTGCCGCA 933
QY 358 ANKVOGAVAT-----AGGT-ATLIAQCALEC---PAGTVLTDGTTSTYKQAASEC 403
Db 934 GTTTGTACTTCACTCATCAAGTCTCAATCATAGCGAAAGACTTAGTTCAGGAGAATA 993
QY 404 VKCAANFYTTKQTDWVAGIDTCTSCNKKLTSGA 436
Db 994 TTCCCGCCT---TTGCTGGTCTCTCTCTATTCAA 1023

```

```

RESULT 14
US-09-436-063C-5
; Sequence 5, Application US/09436063C
; GENERAL INFORMATION:
; APPLICANT: Bamber, Bruce
; TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
; FILE REFERENCE: P-1095corrected
; CURRENT APPLICATION NUMBER: US/09/436,063C
; PRIOR FILING DATE: 1999-11-08
; PRIOR FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1917
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-09-436-063C-5

```

```

Query Match          9.2%; Score 233; DB 18; Length 1917;
Best Local Similarity 25.4%; Pred. No. 1.3e-10;
Matches 115; Conservative 10; Mismatches 238; Indels 90; Gaps 18;

QY 23 CPVGTETNTAGQVDDLGTTPANCVCQKNFYNNAAAFVPGA-----STCTPCPQ 71
Db 622 CTCACCTTACCGTCGGAGTAGACTACCTGGATAGACTGTGGAACCCGACACAGTCTTCTCC 681
QY 72 KKDAGAQNPDPATANLVTCQNVKCPAGTAIAGGATDYAAIITECVNCRINFYNENAPNFN 131
Db 682 AAATGAAA-AGAAATCATCTTCTCCACTT---GGCAACCACACATAAC-----T 725
QY 132 AGASTCTACPNRVNGGALTAGNAATIVAOCN-----VACPTGTALDDGVTTDYVRSFTEC 186
Db 726 CGTTCCTTCGTATCGAG--GGTGATGGAACGGTTTATATACTAGTCAAGATTAACAGTCAC 783
QY 187 VKRLNFYNGNNGNTPFPNGKSQCTPCPAIKPANVAQATLGNDAIT-AQC-----NVA 240
Db 784 TGCAA-----CGTGTCCAATGGACCTGAAGCTGTTCCTCAATGGACTCTCAACACTGTAAA 838
QY 241 CPDGTISAAGVNNWVAQNTCTNCAPNFNNAPNPNPNCNSTCLPCPANKDYGAETAGG 300
Db 839 CTGGAATTTGAAAGCTACGGCTACA-----GTATCCTCGA-----CATTATG 880
QY 301 AATLAKQCNITACPDGTATASG---AFNYVILQTECLNCAANFYFDGNFQAGSSRCKACP 357
Db 881 TAGCTGTCCGACGAGAAGAGTCCGTG---TCCACCGAGTCTTATG---AGTTGCCGCA 933
QY 358 ANKVOGAVAT-----AGGT-ATLIAQCALEC---PAGTVLTDGTTSTYKQAASEC 403
Db 934 GTTTGTACTTCACTCATCAAGTCTCAATCATAGCGAAAGACTTAGTTCAGGAGAATA 993

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Search completed: December 26, 2001, 10:38:06
Job time: 187 sec

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QY 404 VKCAANFYTTKQTDWVAGIDTCTSCNKKLTSGA 436
Db 994 TTCCCGCCT---TTGCTGGTCTCTCTCTATTCAA 1023

RESULT 15
US-09-627-650-5
; Sequence 5, Application US/09627650
; GENERAL INFORMATION:
; APPLICANT: Bamber, Bruce
; TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
; FILE REFERENCE: P-1095corrected
; CURRENT APPLICATION NUMBER: US/09/627,650
; PRIOR FILING DATE: 2000-07-28
; PRIOR FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1917
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-09-627-650-5

```

```

Query Match          9.2%; Score 233; DB 20; Length 1917;
Best Local Similarity 25.4%; Pred. No. 1.3e-10;
Matches 115; Conservative 10; Mismatches 238; Indels 90; Gaps 18;

QY 23 CPVGTETNTAGQVDDLGTTPANCVCQKNFYNNAAAFVPGA-----STCTPCPQ 71
Db 622 CTCACCTTACCGTCGGAGTAGACTACCTGGATAGACTGTGGAACCCGACACAGTCTTCTCC 681
QY 72 KKDAGAQNPDPATANLVTCQNVKCPAGTAIAGGATDYAAIITECVNCRINFYNENAPNFN 131
Db 682 AAATGAAA-AGAAATCATCTTCTCCACTT---GGCAACCACACATAAC-----T 725
QY 132 AGASTCTACPNRVNGGALTAGNAATIVAOCN-----VACPTGTALDDGVTTDYVRSFTEC 186
Db 726 CGTTCCTTCGTATCGAG--GGTGATGGAACGGTTTATATACTAGTCAAGATTAACAGTCAC 783
QY 187 VKRLNFYNGNNGNTPFPNGKSQCTPCPAIKPANVAQATLGNDAIT-AQC-----NVA 240
Db 784 TGCAA-----CGTGTCCAATGGACCTGAAGCTGTTCCTCAATGGACTCTCAACACTGTAAA 838
QY 241 CPDGTISAAGVNNWVAQNTCTNCAPNFNNAPNPNPNCNSTCLPCPANKDYGAETAGG 300
Db 839 CTGGAATTTGAAAGCTACGGCTACA-----GTATCCTCGA-----CATTATG 880
QY 301 AATLAKQCNITACPDGTATASG---AFNYVILQTECLNCAANFYFDGNFQAGSSRCKACP 357
Db 881 TAGCTGTCCGACGAGAAGAGTCCGTG---TCCACCGAGTCTTATG---AGTTGCCGCA 933
QY 358 ANKVOGAVAT-----AGGT-ATLIAQCALEC---PAGTVLTDGTTSTYKQAASEC 403
Db 934 GTTTGTACTTCACTCATCAAGTCTCAATCATAGCGAAAGACTTAGTTCAGGAGAATA 993
QY 404 VKCAANFYTTKQTDWVAGIDTCTSCNKKLTSGA 436
Db 994 TTCCCGCCT---TTGCTGGTCTCTCTCTATTCAA 1023

```